UltraWAVE CDMA Pico BS Plus

CDMA Base Station Controller and Base Transceiver Station

UltraWAVE CDMA Pico BS Plus is a future proof, IP-based CDMA 2000 1XRTT solution that provides indoor wireless telephony and always-on data access for mobile and residential users. Its distinctive distributed IP architecture minimizes operators' initial investment and expedites time-to-market.

The UltraWAVE CDMA Pico BS Plus is a standards-compliant, cost-effective, CDMA2000 Base Station Controller and Base Transceiver Station (BTS) utilizing IP connectivity to backhaul voice and data traffic. It is particularly optimal for indoor applications. This flexible CDMA2000 Radio Access Network (RAN) platform is ideal for providing voice and data services, as either an extension of an existing network or as part of a standalone network using the UltraWAVE CDMA MSC platform.

The UltraWAVE CDMA Pico BS Plus can be attached to a collocated or centralized trunk gateway while being managed by ADC's or a third party MSC. It can also be deployed with a standalone V5.2 access gateway.

Features:

- 1xRTT and IS-95
- Managed over MGCP or IOS
- Circuit voice, VoIP, high speed packet data
- Inter-BSC soft handoff
- Inter-BTS, Inter-BSC, Inter-Vendor Hard Handoff
- Standard A1, A3/A7 interfaces over IP

- Built-in BSC Functions including Packet Control Function (PCF)
- Built-in Selection and Distribution Unit (SDU) Functions
- EVRC/QCELP over IP
- Local call termination
- Support for supplementary services
- Omni, 1 FA or 2 FA

Specifications

CAPACITY
Voice Channels: Up to 32 reverse CE per FA and up to 64 forward CE per FA
Data Speed: Up to 153 kbps (RC3 and RC5)

CONFIGURATIONS
BSC: Performs BSC functions excluding voice coder and echo canceller
BTS: Omni, 1 FA
    Omni, 2 FA

RADIO
Air Interface: IS-95A/B, CDMA 2000 1xRTT 3GPP2 Release 0
Frequency Band: 800 MHz, 1900 MHz
Transmit Power: 100 mWatt output power at antenna port per FA
Receive Diversity: Supported
Configurations: RC1, RC2, RC3, RC4, RC5 in forward link
    RC1, RC2, RC3, RC4 in reverse link

INTERFACE
IP Network Interface: 10/100 Mbps Ethernet, RJ-45 port
Signaling Protocol: IOS4.0.1 over IP
Management: SNMPv2 MIBs
Serial: RS-232, RJ-45 port

OPERATION
Synchronization: Generated by a Stratum 2 0CX0 master clock generator
    Synchronized from built-in GPS receiver
Administration: System provisioning, SW download, alarm collecting, reporting
    and performance statistics
Field Support: Local diagnostic and configuration terminal via 10BaseT Ethernet

POWER SUPPLY
Input Voltage: -48 VDC
    Optional 110 to 220 VAC
Power Consumption: 1 FA, 1 Sector: 75 Watts

MECHANICAL
Dimensions (HxWxD):   12" x 12.5" x 5.5" (30.48 x 31.75 x 12.7 cm)
Weight: 15 lbs. (6.8 kg)
Operating Environment:
Operating Temperature: 0° to 50°C (32° to 122°F)
Humidity (non-condensing):   10% to 90% at 35°C (95°F)

COMPLIANCE: FCC Part 15 and 22 ; UL 60950, CE